

## Populus fremontii / Prosopis velutina Woodland

COMMON NAME	Fremont cottonwood/Velvet mesquite Woodland
SYNONYM	1224.5302 in Reichenbacher, 1983.
TNC SYSTEM	Terrestrial
PHYSIOGNOMIC CLASS	Woodland
PHYSIOGNOMIC SUBCLASS	Deciduous woodland
PHYSIOGNOMIC GROUP	Cold-deciduous woodland
FORMATION	Intermittently flooded cold-deciduous woodland *
ALLIANCE	<i>Populus fremontii</i> (Riparian) Woodland Alliance
CLASSIFICATION CONFIDENCE LEVEL	3
RANGE	Undescribed type and distribution unknown.

### *Tuzigoot National Monument*

This association is found at the north end of the study area, to the south of the old dairy pasture, and at the toe slopes near the surface, partially covered with mine tailings.

### ENVIRONMENTAL DESCRIPTION

#### *Tuzigoot National Monument*

This association is found on toe slopes where several incised arroyos come together. The soil texture is sandy, clay loam.

USFWS WETLAND SYSTEM Palustrine

### MOST ABUNDANT SPECIES

#### *Globally*

Information not available

### *Tuzigoot National Monument*

#### Strata

Tree canopy

#### Species

*Prosopis velutina*, *Celtis reticulata*, *Populus fremontii*, *Elaeagnus angustifolia*

Shrub

*Forrestiera neomexicana*, *Mahonia trifoliata*, *Ziziphus obtusifolia*

Herbaceous

*Sphaeralcea parvifolia*, *Salsola kali*, *Solanum douglassii*, *Hordeum jubatum*, *Bromus rubens*, *Capsella* spp.

### DIAGNOSTIC SPECIES

#### *Globally*

Information not available.

## USGS-NPS Vegetation Mapping Program

### Tuzigoot National Monument

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#### *Tuzigoot National Monument*

*Populus fremontii*, *Mahonia trifoliata*, *Celtis reticulata*, *Prosopis velutina*

#### VEGETATION DESCRIPTION

##### *Globally*

Information is not available.

#### *Tuzigoot National Monument*

This association is very dense and is almost impossible to pass through in many areas. *Populus fremontii* trees form an open canopy above a shrub thicket. *Prosopis velutina* and *Mahonia trifoliata* are the most common shrubs. The herbaceous layer is relatively well-developed, although dominated by weedy species, i.e. *Hordeum jubatum*, *Bromus rubens*, and *Solanum douglasii*.

OTHER NOTEWORTHY SPECIES None

CONSERVATION RANK G?

RANK JUSTIFICATION Not applicable

#### COMMENTS

This association may be a developmental stage or disturbance variant of the *Populus fremontii*—*Salix gooddingii* association. Hydrologic regime is unclear, and its classification may solely reflect the presence of *Populus fremontii*, a residual palustrine indicator.

On the Monument, to the south and east (out of the floodplain), this community intergrades with the *Prosopis velutina*/*Gutierrezia sarothrae* or the *Prosopis velutina*/*Celtis laevigata* var. *reticulata* associations. To the north, it intergrades into the abandoned pasture. There is only one location of this vegetation association at Tuzigoot National Monument.

#### REFERENCES

Reichenbacher, F.W. 1983. Plant Communities of Arizona. Report to Arizona Natural Heritage Program. Tucson, AZ.